

Figure 1 (Prior Art)

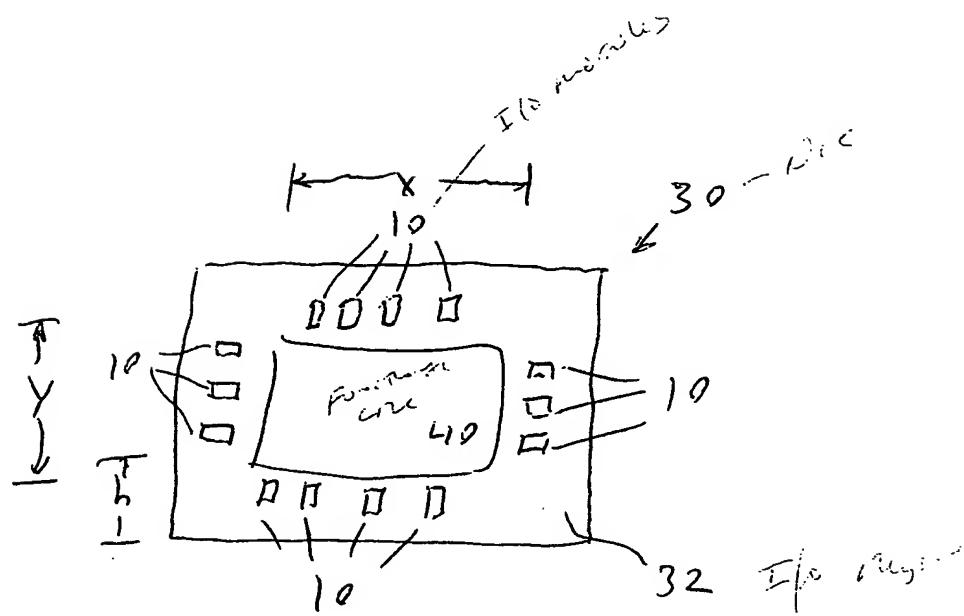


Figure 2 (Prior Art)

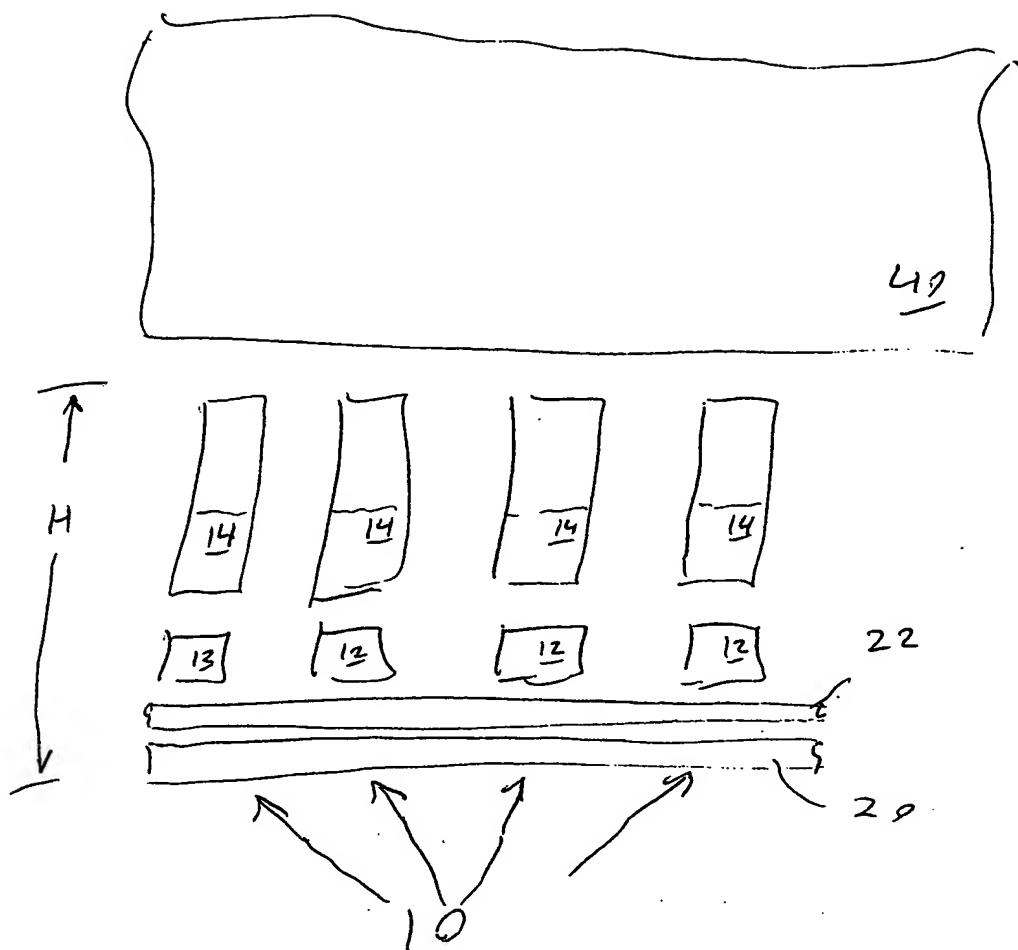


Figure 3 (prior Art)

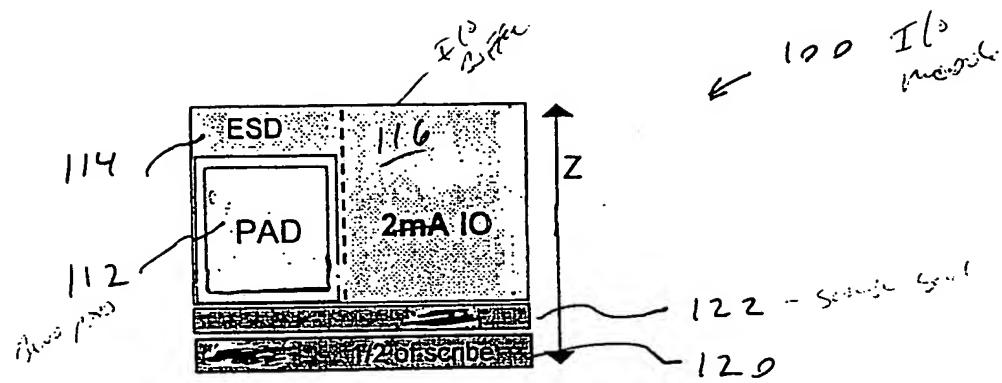


Figure 4

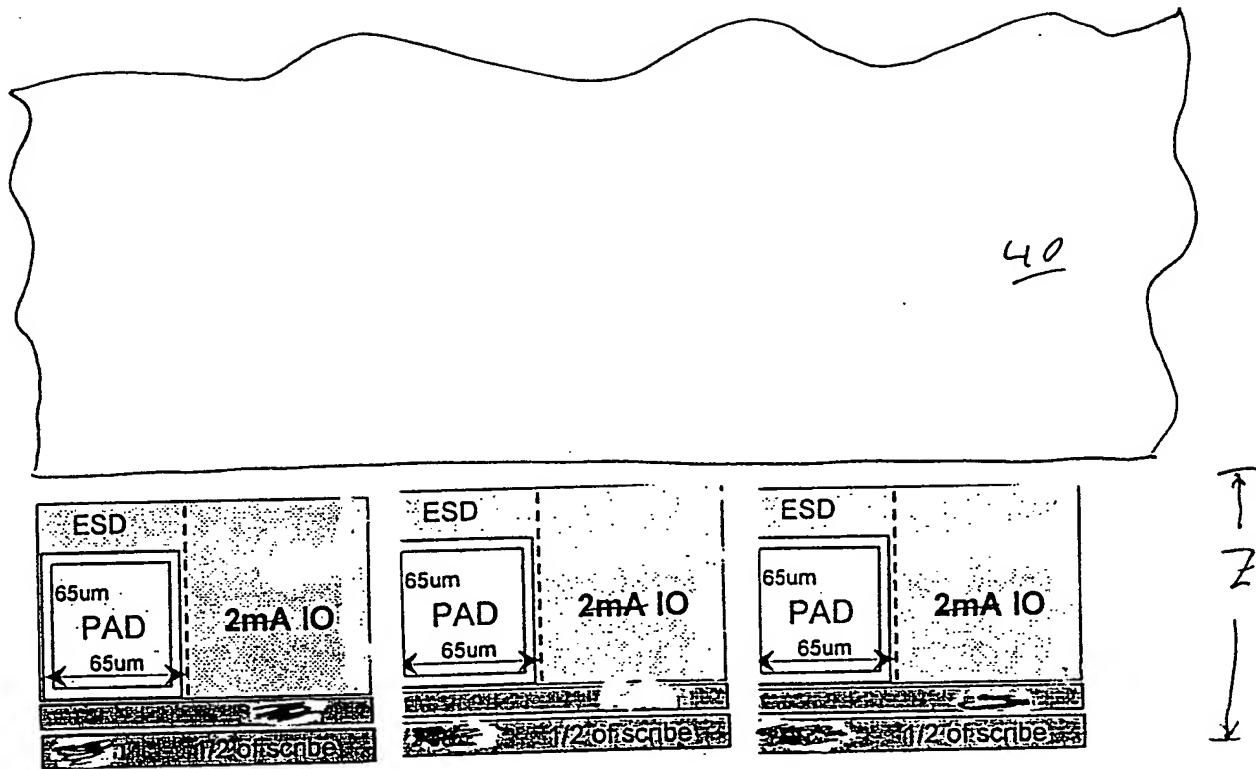


Figure 5

| Core area, mm <sup>2</sup> | mm / side | IO height, um | IO width, um | Area     | max IO | wasted area | % of core |
|----------------------------|-----------|---------------|--------------|----------|--------|-------------|-----------|
| 10                         | 3.162278  | $H = .188$    | 75           | 12.51941 | 169    | 1.67        | 13%       |
|                            |           | $Z = 120$     | 108          | 11.57549 | 117    |             |           |
| 20                         | 4.472136  | $H = 188$     | 75           | 23.50442 | 239    | 2.33        | 10%       |
|                            |           | $Z = 120$     | 108          | 22.20423 | 166    |             |           |
| 30                         | 5.477226  | $H = 188$     | 75           | 34.26025 | 292    | 2.83        | 8%        |
|                            |           | $Z = 120$     | 108          | 32.68667 | 203    |             |           |
| 40                         | 6.324555  | $H = 188$     | 75           | 44.89744 | 337    | 3.26        | 7%        |
|                            |           | $Z = 120$     | 108          | 43.09339 | 234    |             |           |
| 50                         | 7.071068  | $H = 188$     | 75           | 55.45882 | 377    | 3.63        | 7%        |
|                            |           | $Z = 120$     | 108          | 53.45171 | 262    |             |           |
| 60                         | 7.745967  | $H = 188$     | 75           | 65.96634 | 413    | 3.97        | 6%        |
|                            |           | $Z = 120$     | 108          | 63.77566 | 287    |             |           |

Figure 6

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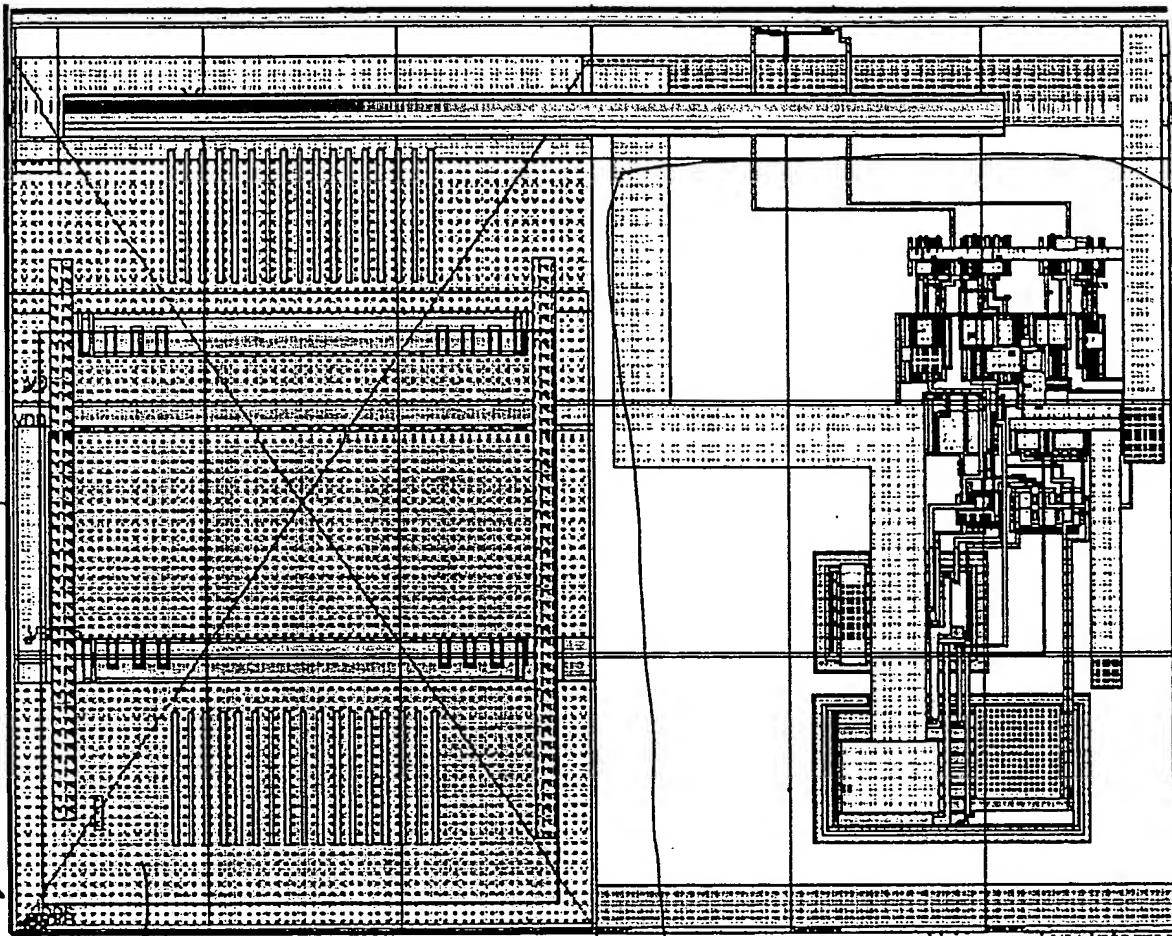


Figure 7

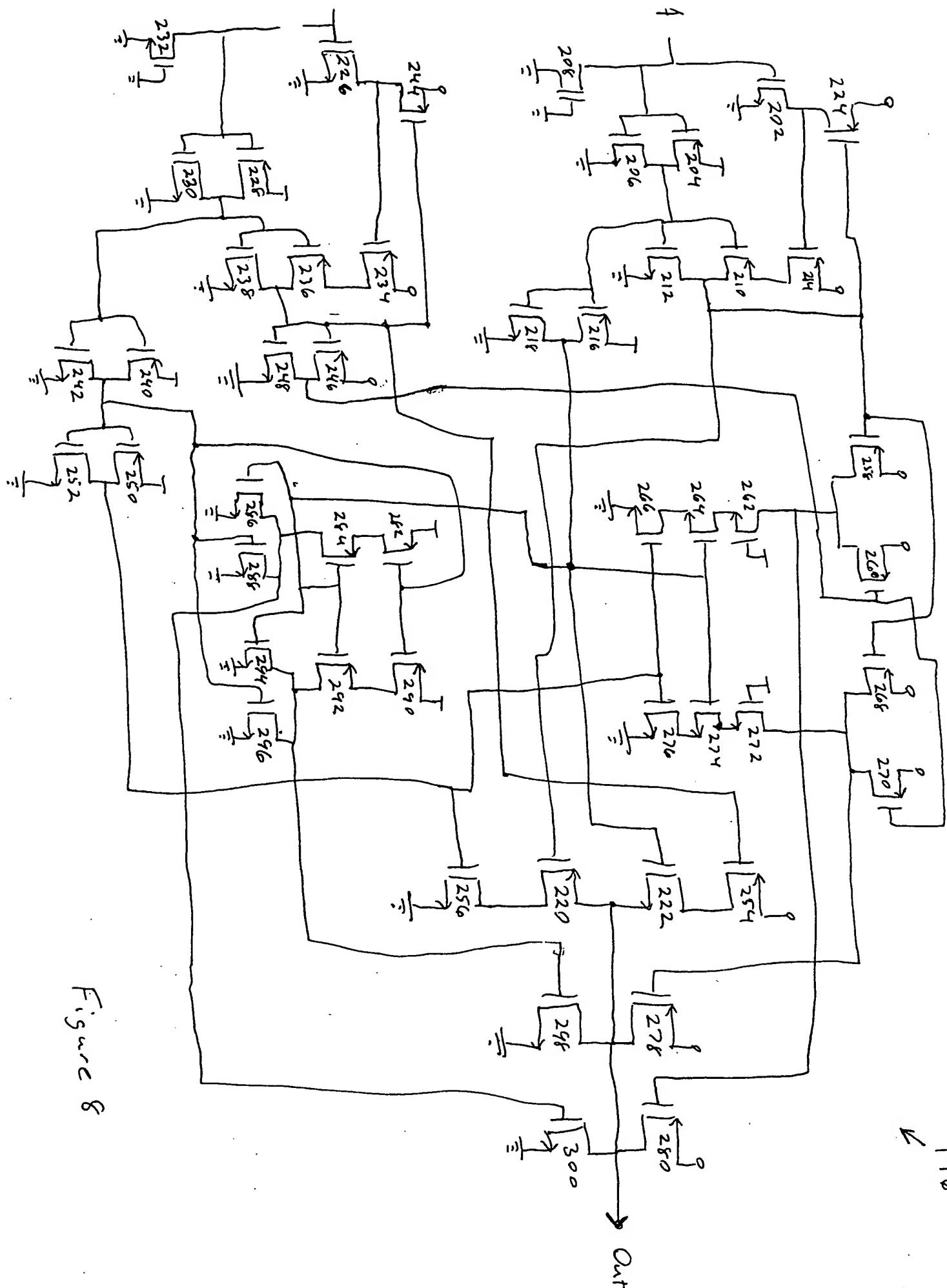


Figure 8